

## CHAPTER II PRELIMINARY DESIGN

### MINIMUM URBAN DESIGN STANDARDS - RESURFACING, RESTORATION & REHABILITATION (3R) PROJECTS

Design Speed	Posted Speed (km/h)	Posted Speed (mph)
Min. Lane Widths		
Through lanes (1)		
Curbed	3.0 m	10 ft
Uncurbed	3.3 m	11 ft
Turning lanes	3.0 m	10 ft
Shoulder Widths		
Curbed lanes	No Minimum	No Minimum
Uncurbed lanes		
<u>ADT</u>		
>1700	1.8 m	6 ft
400--1700	0.9 m	3 ft
<400	0.6 m	2 ft
Max. Horiz. Curve	Existing (radius - m) (2)	Existing (degree)
Vertical Alignment		
Sags (K value)	Existing (2)	Existing (2)
Stopping Sight Distance (m)	Existing (2)	Existing (2)
Max. Grade (percent)	Existing	Existing
Cross Slope	0.0156 m/m	0.0156 ft/ft
Superelevation	Existing (m/m)	Existing (ft/ft)
Horizontal Clearance	(3)	(3)
Vertical Clearance	4.3 m	14 ft
Fill Slopes (4)	Existing	Existing
Bridges (5)		
(1)	Desirable minimum is 3.3 m (11 ft.). Increase to 3.6 m (12 ft.) on designated truck routes or other routes where trucks make up 10 percent or more of average daily traffic.	
(2)	Improvement is considered at high-accident locations. Use signing when sight distance less than standard for new construction.	
(3)	Minimum setback should be behind paved shoulder or 0.6 m (2 ft.) behind the curb.	
(4)	Same requirements as Figures 2-01.3 and 2-01.4.	
(5)	Same requirements as Figures 2-01.3 and 2-01.4.	

#### 3R Minimum Design Standards (Urban)